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DATE: Wednesday, August 16, 2006

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☐	L7	L5 and record$1 and id$1	227
☐	L6	L5 and (timestamp$3)	0
☐	L5	guid and synchroniz$3 and record$1 and @py<=1998	280
☐	L4	L1 and synchroniz$3 and uid$1	0
☐	L3	L1 and synchroniz$3 and uid$1 and updat$3	0
☐	L2	L1 and (synchroniz$3 near5 record$1)	2
☐	L1	(source near5 database) and (target near5 database) and @py<=1998	116

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1 The Roma personal metadata service
Edward Swierk, Emre Kiciman, Nathan C. Williams, Takashi Fukushima, Hideki Yoshida, Vince Laviano, Mary Baker
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(221.38 KB) Additional Information: full citation, abstract, references, index terms

People now have available to them a diversity of digital storage facilities, including laptops, cell phone address books, handheld devices, desktop computers and web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date version of any document in a user's personal file space is available to him on the storage facility he is currently using. We introduce the Roma personal metadata service t ...

Keywords: data synchronization, distributed data storage, distributed databases, metadata, mobile computing, personal systems

2 P11: Web design issues when searching for information in a small screen display
Loel Kim, Michael J. Albers
October 2001 **Proceedings of the 19th annual international conference on Computer documentation**
Publisher: ACM Press
Full text available: pdf(213.93 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we report preliminary findings from an experimental study in which twenty-eight users answered questions by performing strategic information searches on web pages. Pages, which varied in length from 100 to 850 words, were displayed on either a standard, desktop monitor (full-sized) or a palm handheld interface (small-screen). Overall, users took more time to perform the tasks on the small screen interface, with the break in efficacy appearing between 225 and 350 word-lengths. Fina ...

Keywords: PDA, display size, handheld device, personal digital assistant, short-term memory, small-screen interface, strategic information search, web design, web pages

3 Microsoft Windows CE: a new handheld computing platform

Robert O'Hara
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(196.18 KB) Additional Information: full citation, index terms

Keywords: PDA, handheld PC, mobile computing, windows CE

4 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(14.01 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

5 A companion technology approach to CS1: handheld computers with concept visualization software

James Allert
June 2003 **ACM SIGCSE Bulletin , Proceedings of the 8th annual conference on Innovation and technology in computer science education ITiCSE '03**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(723.79 KB) Additional Information: full citation, abstract, references, citings, index terms

All incoming freshmen majoring in computer science at the University of Minnesota Duluth (UMD) are required to purchase a handheld computer with wireless capability (HP/Compaq IPAQ). The integration of these devices into the CSI curriculum was primarily achieved by authoring and distributing a number of applications written to allow students to interact with visualizations of key concepts using their handheld computers. Downloadable from the campus wireless network and used in class (large lectu ...

Keywords: PDA, handheld computer, visualization

6 Implications of the wireless web for technical communicators: User web browsing characteristics using palm handhelds for information retrieval

Michael J. Albers, Loel Kim
September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork**
Publisher: IEEE Educational Activities Department
Full text available: pdf(700.18 KB) Additional Information: full citation, abstract, references, citings

An increasing amount of information is being disseminated to decision-makers via web interfaces. Because there is also an increase in the use of personal digital assistants (PDA's), future web sites must accommodate handheld access. With easy ability to synchronize content from the web with handheld systems, basic web design assumptions

should be reexamined to determine how handheld's affect search and retrieval. The small screen size, text-based design, and cumbersome interface manipulation req ...

7 Q focus: mobile applications: Enterprise-grade wireless

Bruce Zenel
May 2005 **Queue**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(197.39 KB) html(32.31 KB) Additional Information: full citation, abstract, index terms

Wireless technology has come a long way, but is it robust enough for today's enterprise?

8 Special session on mobile computing #2: An N-Tier Client/Server course: a classroom experience

Tacksoo Im, Mario Guimaraes, Ken Hoganson
April 2004 **Proceedings of the 42nd annual Southeast regional conference**
Publisher: ACM Press
Full text available: pdf(363.98 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the results and the lessons learned from implementing CS8628: N-Tier Client/Server systems. This is a new graduate level course offered for the first time in the summer of 2003 and it is intended to introduce fundamental concepts of client/server systems. The course focused on building "real-life" client/server systems using database management systems, middleware, a PDA (Personal Digital Assistant) and synchronization tools. This paper also describes the organization and fo ...

Keywords: Client/Server, DBMS, JDBC, N-Tier, ODBC, PDA, SQL, database, download, middleware, upload

9 Features: Designing Portable Collaborative Networks

May 2003 **Queue**, Volume 1 Issue 3
Publisher: ACM Press
Full text available: pdf(547.14 KB) html(41.58 KB) Additional Information: full citation, index terms

10 Handheld computing (HHC): Personalization and visualization on handheld devices

Dongsong Zhang, George Karabatis, Zhiyuan Chen, Boonlit Adipat, Liwei Dai, Zhenxue Zhang, Yu Wang
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
Publisher: ACM Press
Full text available: pdf(471.94 KB) Additional Information: full citation, abstract, references, index terms

The small screen size of handheld mobile devices poses an inherent problem in visualizing data: very often it is too difficult and unpleasant to navigate through the plethora of presented information. This paper presents a novel approach to personalized and adaptive content presentation for handheld devices, which has been implemented in a mobile financial application system based on a 3-tier architecture. The approach is independent of wireless networks and mobile devices. It utilizes a combina ...

Keywords: PDA, clustering, mobile devices, user profiles, visualization

11

Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

12 Who shapes the future?: problem framings and the development of handheld computers
Jonathan P. Allen
June 1998 **ACM SIGCAS Computers and Society , Proceedings of the ethics and social impact component on Shaping policy in the information age ACM POLICY '98**, Volume 28 Issue 2
Publisher: ACM Press
Full text available: pdf(810.59 KB) Additional Information: full citation, abstract, references, index terms

How can computer professionals shape the future of new computing technologies? Using the recent history of handheld computers as an example, this paper investigates how computer professionals can shape the future by helping to define what new technologies should be. Computer professionals can play a variety of roles in creating, maintaining, and questioning problem framings, or the basic assumptions about what problem a new technology is trying to solve. In addition to political activ ...

13 N-Tier Client Server systems course with emphasis to mobile devices
Ken Hoganson, Mario Guimaraes
January 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 3
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(65.64 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the design of a new course in N-Tier Client/Server systems, motivation and challenges, pedagogical considerations, the technology used, and the courses integration in the innovative Master of Science in Applied Computer Science program at Kennesaw State University. This course introduces client/server systems and technologies, middleware, and distributed computing. Unique aspects include the student hands-on lab experience with the development of the client software for a PD ...

14 Mobility and Wireless Access: Personalized pocket directories for mobile devices
Doron Cohen, Michael Herscovici, Yael Petruschka, Yoëlle S. Maarek, Aya Soffer
May 2002 **Proceedings of the 11th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(529.16 KB) Additional Information: full citation, abstract, references, citings, index terms

In spite of the increase in the availability of mobile devices in the last few years, Web information is not yet as accessible from PDAs or WAP phones as it is from the desktop. In this paper, we propose a solution for supporting one of the most popular information discovery mechanisms, namely Web directory navigation, from mobile devices. Our proposed solution consists of caching enough information on the device itself in order to conduct most of the navigation actions locally (with subsecond r ...

Keywords: hierarchical browsers, mobile devices, mobile search, personalization

15 Visualization of travel itinerary information on PDAs

Masood Masoodian, Daryl Budd

January 2004 **Proceedings of the fifth conference on Australasian user interface - Volume 28 AUIC '04**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(292.62 KB) Additional Information: full citation, abstract, references

Conventional travel itineraries list travel related information, such as flights and hotel bookings, in a chronological order of date and time. As such the only observable relationship between different activities listed on a conventional itinerary is that the activities follow one another sequentially in time. Various graphical travel itinerary visualization systems have recently been developed to allow making references between different events on an itinerary easier. These systems rely on lar ...

Keywords: PDA, handheld computing, mobile computing, travel itinerary, visualization

16 Group C: aAqua: a database-backended multilingual, multimedia community forum

Krithi Ramamritham, Anil Bahuman, Subhasri Duttagupta

June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**

Publisher: ACM Press

Full text available: pdf(428.97 KB) Additional Information: full citation, abstract, references

aAQUA is an online multilingual, multimedia Agricultural portal for disseminating information from and to rural communities. It answers farmers' queries based on the location, season, crop and other information provided by farmers. aAQUA makes use of novel database systems and information retrieval techniques like intelligent caching, offline access with intermittent synchronization, semantic-based search, etc. aAQUA's large scale deployment provides avenues for researchers to contribute in the ...

17 Applications: Situational visualization

David M. Krum, William Ribarsky, Christopher D. Shaw, Larry F. Hodges, Nickolas Faust

November 2001 **Proceedings of the ACM symposium on Virtual reality software and technology**

Publisher: ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we introduce a new style of visualization called *Situational Visualization*, in which the user of a robust, mobile visualization system uses mobile computing resources to enhance the experience and understanding of the surrounding world. Additionally, a Situational Visualization system allows the user to add to the visualization and any underlying simulation by inputting the user's observations of the phenomena of interest, thus improving the quality of visualization for the ...

Keywords: dynamic databases, location and time-specific user input, location-specific services, mobile users and collaborators, real-time acquisition and insertion of data, synchronized databases

18 Embedded systems programming

Guillermo A. Francia

December 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(301.45 KB) Additional Information: full citation, references, index terms

19 E-voting, ethics, and infastructure for computing education: eFuzion: development of a pervasive educational system

Chad Peiper, David Warden, Ellick Chan, Boris Capitanu, Sam Kamin

June 2005 **Proceedings of the 10th annual SIGCSE conference on Innovation and technology in computer science education ITiCSE '05**

Publisher: ACM Press

Full text available: pdf(797.12 KB) Additional Information: full citation, abstract, references, index terms

Established as a research project at the University of Illinois in the spring of 2002, eFuzion has proven to be a valuable and effective pedagogical set of tools. It provides the capacity to both mentor and assess students individually, both during and outside of class. In the summer of 2002, a study we conducted revealed that eFuzion's in-class tools increased student's final grade by more than 6 points. In this paper we describe the evolution of our system and experiences leading up to our "Cl ...

Keywords: Tablet PC, classroom presentation, collaborative learning, digital ink, educational technology, lecture notes, wireless learning environment

20 SpeechSkimmer: a system for interactively skimming recorded speech

Barry Arons

March 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Listening to a speech recording is much more difficult than visually scanning a document because of the transient and temporal nature of audio. Audio recordings capture the richness of speech, yet it is difficult to directly browse the stored information. This article describes techniques for structuring, filtering, and presenting recorded speech, allowing a user to navigate and interactively find information in the audio domain. This article describes the SpeechSkimmer system for interacti ...

Keywords: audio browsing, interactive listening, nonspeech audio, speech as data, speech skimming, speech user interfaces, time compression

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Terms used **1997 synchronizing distributed databases** Found **70,160** of **184,245**

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Best 200 shown Relevance scale

1 Optimistic replication
Yasushi Saito, Marc Shapiro
March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1
Publisher: ACM Press
Full text available: pdf(656.72 KB) Additional Information: full citation, abstract, references, index terms

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work practices and tolerate failures in low-quality communication links. The importance of such techniques is increasing as collaboration through wide-area and mobile networks becomes popular.Optimistic replication deploys algorithms not seen in tradition ...

Keywords: Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

2 Multiversion-based view maintenance over distributed data sources
Songting Chen, Bin Liu, Elke A. Rundensteiner
December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(480.72 KB) Additional Information: full citation, abstract, references, index terms

Materialized views can be maintained by submitting maintenance queries to the data sources. However, the query results may be erroneous due to concurrent source updates. State-of-the-art maintenance strategies typically apply compensations to resolve such conflicts and assume all source schemata remain stable over time. In a loosely coupled dynamic environment, the sources may autonomously change not only their data but also their schema or semantics. Consequently, either the maintenance or the ...

Keywords: View maintenance, transaction processing

3 Synchronizing group transaction with rendezvous in a distributed Ada environment
Marta Patiño-Martínez, Ricardo Jiménez-Peris, Sergio Arévalo
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**
Publisher: ACM Press
Full text available: Additional Information:

pdf(877.93 KB) full citation, references, citings, index terms

Keywords: distributed systems, fault-tolerance, group communication, transactions

4 B-tree concurrency control and recovery in page-server database systems

Ibrahim Jaluta, Seppo Sippu, Eljas Soisalon-Soininen
March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1
Publisher: ACM Press
Full text available: pdf(401.86 KB) Additional Information: full citation, abstract, references, index terms

We develop new algorithms for the management of transactions in a page-shipping client-server database system in which the physical database is organized as a sparse B-tree index. Our starvation-free fine-grained locking protocol combines adaptive callbacks with key-range locking and guarantees repeatable-read-level isolation (i.e., serializability) for transactions containing any number of record insertions, record deletions, and key-range scans. Partial and total rollbacks of client transactio ...

Keywords: ARIES, ARIES/CSA, B-tree, cache consistency, callback locking, client-server database system, data shipping, key-range locking, page server, partial rollback, physiological logging, sparse B-tree, structure modification

5 Total order broadcast and multicast algorithms: Taxonomy and survey

Xavier Défago, André Schiper, Péter Urbán
December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4
Publisher: ACM Press
Full text available: pdf(544.45 KB) Additional Information: full citation, abstract, references, index terms

Total order broadcast and multicast (also called atomic broadcast/multicast) present an important problem in distributed systems, especially with respect to fault-tolerance. In short, the primitive ensures that messages sent to a set of processes are, in turn, delivered by all those processes in the same total order.

Keywords: Distributed systems, agreement problems, atomic broadcast, atomic multicast, classification, distributed algorithms, fault-tolerance, global ordering, group communication, message passing, survey, taxonomy, total ordering

6 Sensor databases: Cache-and-query for wide area sensor databases

Amol Deshpande, Suman Nath, Phillip B. Gibbons, Srinivasan Seshan
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
Publisher: ACM Press
Full text available: pdf(230.75 KB) Additional Information: full citation, abstract, references, citings, index terms

Webcams, microphones, pressure gauges and other sensors provide exciting new opportunities for querying and monitoring the physical world. In this paper we focus on querying *wide area sensor databases*, containing (XML) data derived from sensors spread over tens to thousands of miles. We present the first scalable system for executing XPATH queries on such databases. The system maintains the logical view of the data as a single XML document, while physically the data is fragmented across a ...

7 Integrating the rewriting and ranking phases of view synchronization

Andreas Koeller, Elke A. Rundensteiner, Nabil Hachem
November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press
Full text available: pdf(787.03 KB) Additional Information: full citation, references, citings, index terms

Keywords: cost model, data warehouse, evolvable view environment, shortest path problem

8 Epidemic algorithms in replicated databases (extended abstract)
D. Agrawal, A. El Abbadi, R. C. Steinke
May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press
Full text available: pdf(1.59 MB) Additional Information: full citation, references, citings, index terms

9 Performance modeling of nested transactions in database systems
Hossam S. Hassanein, Mohamed E. El-Sharkawi
November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(148.66 KB) Additional Information: full citation, abstract, references, index terms

The nested transaction model was introduced to satisfy the requirements of advanced database applications. Moreover, it is currently the basic transaction model for new databases like workflow systems, mobile databases, and objectrelational databases. Though there are several performance evaluation studies of different concurrency control mechanisms in nested transactions, effects of transaction parameters on the overall system performance have not received any attention. In this paper, we study ...

Keywords: nested transactions, performance evaluation, simulation, two-phase locking

10 Mobile Computing: Scaling replica maintenance in intermittently synchronized mobile databases
Wai Gen Yee, Michael J. Donahoo, Edward Omiecinski, Shamkant B. Navathe
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(2.20 MB) Additional Information: full citation, abstract, references, citings, index terms

To avoid the high cost of continuous connectivity, a class of mobile applications employs replicas of shared data that are periodically updated. Updates to these replicas are typically performed on a client-by-client basis--that is, the server individually computes and transmits updates to each client--limiting scalability. By basing updates on replica groups (instead of clients), however, update generation complexity is no longer bound by client population size. Clients then download updates of ...

Keywords: distributed databases, intermittent synchronization, mobile databases

11 Synchronization in Distributed Programs

Fred B. Schneider
April 1982 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 4 Issue 2
Publisher: ACM Press
Full text available: pdf(1.56 MB) Additional Information: full citation, references, citings, index terms

12 Transactional client-server cache consistency: alternatives and performance

Michael J. Franklin, Michael J. Carey, Miron Livny
September 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 3
Publisher: ACM Press
Full text available: pdf(452.41 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Client-server database systems based on a data shipping model can exploit client memory resources by caching copies of data items across transaction boundaries. Caching reduces the need to obtain data from servers or other sites on the network. In order to ensure that such caching does not result in the violation of transaction semantics, a transactional cache consistency maintenance algorithm is required. Many such algorithms have been proposed in the literature and, as all provide the sam ...

13 Timed consistency for shared distributed objects

Francisco J. Torres-Rojas, Mustaque Ahamad, Michel Raynal
May 1999 **Proceedings of the eighteenth annual ACM symposium on Principles of distributed computing**
Publisher: ACM Press
Full text available: pdf(1.06 MB) Additional Information: full citation, references, citings, index terms

14 Adaptive, fine-grained sharing in a client-server OODBMS: a callback-based approach

Markos Zaharioudakis, Michael J. Carey, Michael J. Franklin
December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4
Publisher: ACM Press
Full text available: pdf(441.80 KB) Additional Information: full citation, abstract, references, citings, index terms, review

For reasons of simplicity and communication efficiency, a number of existing object-oriented database management systems are based on page server architectures; data pages are their minimum unit of transfer and client caching. Despite their efficiency, page servers are often criticized as being too retrictive when it comes to concurrency, as existing systems use pages as the minimum locking unit as well. In this paper we show how to support object-level locking in a page-server context. Sev ...

Keywords: cache coherency, cache consistency, client-server databased, fine-grained sharing, object-oriented databases, performance analysis

15 Deadlock detection in distributed database systems: a new algorithm and a comparative performance analysis

Natalija Krivokapić, Alfons Kemper, Ehud Gudes
October 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 2
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(289.96 KB) Additional Information: full citation, abstract, citings, index terms

This paper attempts a comprehensive study of deadlock detection in distributed database systems. First, the two predominant deadlock models in these systems and the four different distributed deadlock detection approaches are discussed. Afterwards, a new deadlock detection algorithm is presented. The algorithm is based on dynamically creating *deadlock detection agents* (DDAs), each being responsible for detecting deadlocks in one connected component of the global wait-for-graph (WFG). The ...

Keywords: Comparative performance analysis, Deadlock detection, Distributed database systems, Simulation study

16 Active services for federated databases

Genoveva Vargas-Solar, Christine Collet, Helena G. Ribeiro

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1**

Publisher: ACM Press

Full text available: pdf(637.84 KB) Additional Information: full citation, references, index terms

Keywords: active databases, federated database systems, unbundling active capabilities

17 Supporting transactional cache consistency in mobile database systems

SangKeun Lee, Chong-Sun Hwang, HeongChang Yu

August 1999 **Proceedings of the 1st ACM international workshop on Data engineering for wireless and mobile access**

Publisher: ACM Press

Full text available: pdf(993.79 KB) Additional Information: full citation, references, citings, index terms

18 Session 3: Minimal replication cost for availability

Haifeng Yu, Amin Vahdat

July 2002 **Proceedings of the twenty-first annual symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings

Today, the utility of many replicated Internet services is limited by availability rather than raw performance. To better understand the effects of replica placement on availability, we propose the problem of *minimal replication cost for availability*. Let replication cost be the cost associated with replica deployment, dynamic replica creation and teardown at *n* candidate locations. Given client access patterns, replica failure patterns, network partition patterns, a required consis ...

19 Synchronization in multimedia data retrieval

Anna Haj Hać, Cindy X. Xue

January 1997 **International Journal of Network Management**, Volume 7 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(487.64 KB) Additional Information: full citation, abstract, references, index terms

Synchronization of multiple medium streams in real time has been recognized as one of the most important requirements for multimedia applications based on broadband high-speed networks. This article presents a complete synchronization scheme for distributed

multimedia information systems. © 1997 John Wiley & Sons, Ltd.

20 Parallel multisource view maintenance

Xin Zhang, Lingli Ding, Elke A. Rundensteiner

January 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 1
Publisher: Springer-Verlag New York, Inc.

In a distributed environment, materialized views are used to integrate data from different information sources and then store them in some centralized location. In order to maintain such materialized views, maintenance queries need to be sent to information sources by the data warehouse management system. Due to the independence of the information sources and the data warehouse, concurrency issues are raised between the maintenance queries and the local update transactions at each information so ...

Keywords: Concurrent data updates, Data warehousing, Parallel view maintenance, Performance evaluation

Terms used **1997 synchronizing source target data** Found **95,216** of **184,245**

Sort results by: relevance
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Try this search in The ACM Guide

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next
Best 200 shown Relevance scale

1 Eliminating synchronization overhead in automatically parallelized programs using dynamic feedback
Pedro C. Diniz, Martin C. Rinard
May 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 2
Publisher: ACM Press
Full text available: pdf(244.57 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents dynamic feedback, a technique that enables computations to adapt dynamically to different execution environments. A compiler that uses dynamic feedback produces several different versions of the same source code; each version uses a different optimization policy. The generated code alternately performs sampling phases and production phases. Each sampling phase measures the overhead of each version in the current environment. Each production phase uses the version with ...

Keywords: parallel computing, parallelizing compilers

2 Facial modeling and animation
Jörg Haber, Demetri Terzopoulos
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(18.15 MB) Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

3 A study of source-level compiler algorithms for automatic construction of pre-execution code
Dongkeun Kim, Donald Yeung
August 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 3
Publisher: ACM Press
Full text available: Additional Information:

pdf(1.55 MB) full citation, abstract, references, index terms

Pre-execution is a promising latency tolerance technique that uses one or more helper threads running in spare hardware contexts ahead of the main computation to trigger long-latency memory operations early, hence absorbing their latency on behalf of the main computation. This article investigates several source-to-source C compilers for extracting pre-execution thread code automatically, thus relieving the programmer or hardware from this onerous task. We present an aggressive profile-driven co ...

Keywords: Data prefetching, memory-level parallelism, multithreading, pre-execution, prefetch conversion, program slicing, speculative loop parallelization

4 Extracting usability information from user interface events

David M. Hilbert, David F. Redmiles

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Publisher: ACM Press

Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, because user interface events are typically voluminos and rich in detail, automated support is generally ...

Keywords: human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Security: Ariadne:: a secure on-demand routing protocol for ad hoc networks

Yih-Chun Hu, Adrian Perrig, David B. Johnson

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(308.15 KB) Additional Information: full citation, abstract, references, citings, index terms

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

7 Techniques for obtaining high performance in Java programs

Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Publisher: ACM Press

Full text available: pdf(816.13 KB) Additional Information: full citation, abstract, references, citings, index terms

This survey describes research directions in techniques to improve the performance of programs written in the Java programming language. The standard technique for Java execution is interpretation, which provides for extensive portability of programs. A Java interpreter dynamically executes Java bytecodes, which comprise the instruction set of the Java Virtual Machine (JVM). Execution time performance of Java programs can be improved through compilation, possibly at the expense of portabili ...

Keywords: Java, Java virtual machine, bytecode-to-source translators, direct compilers, dynamic compilation, interpreters, just-in-time compilers

8 Automatic data layout for distributed-memory machines

Ken Kennedy, Ulrich Kremer
July 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 4
Publisher: ACM Press

Full text available: pdf(633.20 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The goal of languages like Fortran D or High Performance Fortran (HPF) is to provide a simple yet efficient machine-independent parallel programming model. After the algorithm selection, the data layout choice is the key intellectual challenge in writing an efficient program in such languages. The performance of a data layout depends on the target compilation system, the target machine, the problem size, and the number of available processors. This makes the choice of a good layout extremel ...

Keywords: high performance Fortran

9 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

10 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press

Full text available: pdf(63.03 MB) Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

11 Technical session 7: multimedia systems: Inter-stream synchronization between haptic media and voice in collaborative virtual environments

Yutaka Ishibashi, Takeshi Kanbara, Shuji Tasaka

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(738.43 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses an inter-stream synchronization issue between haptic media and voice in networked virtual environments. The paper proposes a media synchronization algorithm for the two types of media stream by enhancing the virtual-time rendering (VTR) algorithm, which the authors previously proposed. The new algorithm employs two types of error range in order to keep high quality of intra-stream synchronization at the expense of slight deterioration in the inter-stream synchronization q ...

Keywords: collaborative virtual environments, haptic media, media synchronization, voice

12 Adaptive pull-based policies for wide area data delivery

Laura Bright, Avigdor Gal, Louiqa Raschid

June 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(680.22 KB) Additional Information: full citation, abstract, references, index terms

Wide area data delivery requires timely propagation of up-to-date information to thousands of clients over a wide area network. Applications include web caching, RSS source monitoring, and email access via a mobile network. Data sources vary widely in their update patterns and may experience different update rates at different times or unexpected changes to update patterns. Traditional data delivery solutions are either push-based, which requires servers to push updates to clients, or pull-based ...

Keywords: Pull-based, caching, data delivery, update models

13 Integrating XML data sources using approximate joins

Sudipto Guha, H. V. Jagadish, Nick Koudas, Divesh Srivastava, Ting Yu

March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, index terms

XML is widely recognized as the data interchange standard of tomorrow because of its ability to represent data from a variety of sources. Hence, XML is likely to be the format through which data from multiple sources is integrated. In this article, we study the problem of integrating XML data sources through correlations realized as join operations. A challenging aspect of this operation is the XML document structure. Two documents might convey approximately or exactly the same information but m ...

Keywords: Data integration, XML, approximate joins, joins, tree edit distance

14 Monitoring data streams: Adaptive filters for continuous queries over distributed data streams

Chris Olston, Jing Jiang, Jennifer Widom

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(244.11 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider an environment where distributed data sources continuously stream updates to a centralized processor that monitors continuous queries over the distributed data. Significant communication overhead is incurred in the presence of rapid update streams, and we propose a new technique for reducing the overhead. Users register continuous queries with precision requirements at the central stream processor, which installs filters at remote data sources. The filters adapt to changing condition ...

15 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.64 MB) Additional Information: full citation

16 Learning dependency translation models as collections of finite-state head transducers

Hiyan Alshawi, Shona Douglas, Srinivas Bangalore

March 2000 **Computational Linguistics**, Volume 26 Issue 1

Publisher: MIT Press

Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references

Publisher Site

The paper defines weighted head transducers, finite-state machines that perform middle-out string transduction. These transducers are strictly more expressive than the special case of standard left-to-right finite-state transducers. Dependency transduction models are then defined as collections of weighted head transducers that are applied hierarchically. A dynamic programming search algorithm is described for finding the optimal transduction of an input string with respect to a dependency trans ...

17 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

18 Pointer analysis for structured parallel programs

Radu Rugina, Martin C. Rinard
January 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(383.29 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel constructs, including fork-join constructs, parallel loops, and conditionally spawned threads. For each pointer and each program point, the algorithm computes a conservative approximation of the memory locations to which that pointer may point. Th ...

Keywords: Pointer analysis

19 Projectors: advanced graphics and vision techniques

Ramesh Raskar
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(6.53 MB) Additional Information: full citation

20 Parallel simulation of chip-multiprocessor architectures

Matthew Chidester, Alan George
July 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 12 Issue 3
Publisher: ACM Press
Full text available: pdf(519.20 KB) Additional Information: full citation, abstract, references, index terms

Chip-multiprocessor (CMP) architectures present a challenge for efficient simulation, combining the requirements of a detailed microprocessor simulator with that of a tightly-coupled parallel system. In this paper, a distributed simulator for target CMPs is presented based on the Message Passing Interface (MPI) designed to run on a host cluster of workstations. Microbenchmark-based evaluation is used to narrow the parallelization design space concerning the performance impact of distributed vs. ...

Keywords: Chip multiprocessors (CMP), Myrinet, Scalable Coherent Interface (SCI), microbenchmarks

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IEEE STD	IEEE Standard

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1. **Advanced file organization and its ADT operations**
Moriya, K.; Arisawa, H.; Suzuka, T.; Oyanagi, K.;
Systems Integration, 1990. Systems Integration '90., Proceedings of the First I
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23-26 April 1990 Page(s):781 - 788
Digital Object Identifier 10.1109/ICSI.1990.138745
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Ghandeharizadeh, S.; Choi, V.; Ker, C.; Lin, K.-M.;
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Conference on
20-22 Jan. 1993 Page(s):182 - 186
Digital Object Identifier 10.1109/PDIS.1993.253055
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3. **The Architecture of an Integrated Local Network**
Leach, P.; Levine, P.; Douros, B.; Hamilton, J.; Nelson, D.; Stumpf, B.;
Selected Areas in Communications, IEEE Journal on
Volume 1, Issue 5, Nov 1983 Page(s):842 - 857
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Tung, L.; Ramirez, R.G.; St Louis, R.D.;
System Sciences, 1991. Proceedings of the Twenty-Fourth Annual Hawaii Inte
Conference on
Volume iii, 8-11 Jan. 1991 Page(s):284 - 290 vol.3
Digital Object Identifier 10.1109/HICSS.1991.184156
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Lambert, P.A.;
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29 Sept.-1 Oct. 1992 Page(s):02.04/1 - 02.04/5
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☐ **6. An adaptive control scheme for robots with unknown dynamics**
Max Meng, Q.-H.; Lu, W.-S.;
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14-17 Sept. 1993 Page(s):833 - 836 vol.2
Digital Object Identifier 10.1109/CCECE.1993.332425

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☐ **7. Universal mobile addressing in the Internet**
Cobb, J.A.; Edmondson-Yurkanan, C.C.; Gouda, M.G.;
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8-9 Dec. 1994 Page(s):24 - 31
Digital Object Identifier 10.1109/MCSA.1994.512730

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Hua, K.A.; Tripathy, C.;
Data Engineering, 1994. Proceedings. 10th International Conference
14-18 Feb. 1994 Page(s):508 - 517
Digital Object Identifier 10.1109/ICDE.1994.283075

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☐ **9. Network technology for multimedia**
Cooper, N.;
Interactive Multimedia: A Review and Update for Potential Users, IEE Colloqui
23 Sep 1992 Page(s):6/1 - 6/3

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1. **Naming and addressing of objects without unique identifiers**
   Fujinami, N.; Yokote, Y.;
   Distributed Computing Systems, 1992., Proceedings of the 12th International C
   9-12 June 1992 Page(s):581 - 588
   Digital Object Identifier 10.1109/ICDCS.1992.235097
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☐ **1. White laser, synced scan [3D scanner]**
Rioux, M.; Bird, T.;
Computer Graphics and Applications, IEEE
Volume 13, Issue 3, May 1993 Page(s):15 - 17
Digital Object Identifier 10.1109/38.210485
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☐ **2. Video communication on LANs-multimedia CSCW applications**
Xiaohui Zhang; Descout, R.; Mabilleau, P.;
Electrical and Computer Engineering, 1993. Canadian Conference on
14-17 Sept. 1993 Page(s):632 - 635 vol.2
Digital Object Identifier 10.1109/CCECE.1993.332375
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1. **Expert system for project management**
Sachdeva, R.; Namburi, N.R.;
Engineering Management Conference, 1993. 'Managing Projects in a Borderle Conference Proceedings., 1993 IEEE International
17-18 Dec. 1993 Page(s):212 - 220
Digital Object Identifier 10.1109/IEMC.1993.316474
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Weiyi Meng; Yu, C.; Won Kim;
Knowledge and Data Engineering, IEEE Transactions on
Volume 7, Issue 2, April 1995 Page(s):228 - 245
Digital Object Identifier 10.1109/69.382294
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Bulow, J.A.;
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24-27 June 1991 Page(s):181 - 189
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3. **Hybrid systems-a key to intelligent pattern recognition**
Kanal, L.; Raghavan, S.;
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Digital Object Identifier 10.1109/IJCNN.1992.227345
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Papakonstantinou, Y.; Gupta, A.; Haas, L.;
Parallel and Distributed Information Systems, 1996., Fourth International Confe
18-20 Dec. 1996 Page(s):170 - 181
Digital Object Identifier 10.1109/PDIS.1996.568678
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Brothers, A.S., Jr.; Ginther, J.C.; Lehnert, J.S.;
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Livny, M.; Ratnakar, V.;
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Digital Object Identifier 10.1109/SSDM.1996.506054
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System Sciences, 1988. Vol.II. Software Track, Proceedings of the Twenty-Firs International Conference on
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9-12 Nov. 1992 Page(s):309 - 317
Digital Object Identifier 10.1109/ICSM.1992.242530
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☐ **11. Concatenative speech synthesis by minimum distortion criteria**
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Acoustics, Speech, and Signal Processing, 1992. ICASSP-92., 1992 IEEE Inte Conference on
Volume 2, 23-26 March 1992 Page(s):65 - 68 vol.2
Digital Object Identifier 10.1109/ICASSP.1992.226119
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☐ **12. Processing hierarchical queries in heterogeneous environment**
Weiyi Meng; Yu, C.; Won Kim;
Data Engineering, 1992. Proceedings. Eighth International Conference on
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Digital Object Identifier 10.1109/ICDE.1992.213170

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☐ **13. Digital's DB Integrator: a commercial multi-database management systen**
Holden, R.;
Parallel and Distributed Information Systems, 1994., Proceedings of the Third Conference on
28-30 Sept. 1994 Page(s):267 - 268
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☐ **14. Target detection in fused X-band radar and IR images using the functiona approach to data association**
Parmar, N.C.; Kokar, M.M.;
Intelligent Control, 1994., Proceedings of the 1994 IEEE International Sympos
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☐ **15. Automatic in-line measurement for the identification of killer defects**
Wilson, D.; Walton, A.J.;
Semiconductor Processing - Quality through Measurement, IEE Colloquium or
27 Apr 1994 Page(s):5/1 - 5/8

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☐ **16. Conversion of documents to and from SGML**
Hunter, B.;
Adding Value to Documents with Markup Languages, IEE Colloquium on
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☐ **17. Infrared search and track signal processing: a potential application of art computing**
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Artificial Neural Networks, 1989., First IEE International Conference on (Conf.
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Knowledge and Data Engineering, IEEE Transactions on
Volume 8, Issue 4, Aug. 1996 Page(s):515 - 521
Digital Object Identifier 10.1109/69.536244

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☐ **19. Transformations using a meta-system approach to software developmen**
Boloix, G.; Sorenson, P.G.; Tremblay, J.P.;
Software Engineering Journal
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☐ **20. MedMaker: a mediation system based on declarative specifications**
Papakonstantinou, Y.; Garcia-Molina, H.; Ullman, J.;
Data Engineering, 1996. Proceedings of the Twelfth International Conference

26 Feb.-1 March 1996 Page(s):132 - 141
Digital Object Identifier 10.1109/ICDE.1996.492097

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Ohkubo, K.;
Global Telecommunications Conference, 1992. Conference Record., GLOBEC 'Communication for Global Users'., IEEE
6-9 Dec. 1992 Page(s):1010 - 1015 vol.2
Digital Object Identifier 10.1109/GLOCOM.1992.276372

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1. **Client-based logging for high performance distributed architectures**
Panagos, E.; Biliris, A.; Jagadish, H.V.; Rastogi, R.;
Data Engineering, 1996. Proceedings of the Twelfth International Conference
26 Feb.-1 March 1996 Page(s):344 - 351
Digital Object Identifier 10.1109/ICDE.1996.492182
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Neuhold, E.J.; Kent, W.; Ming-Chien Shan;
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7-9 April 1991 Page(s):302 - 305
Digital Object Identifier 10.1109/IMS.1991.153725
AbstractPlus | Full Text: PDF(216 KB) **IEEE CNF**
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2. **Timestamping after commit**
Salzberg, B.;
Parallel and Distributed Information Systems, 1994., Proceedings of the Third I Conference on
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Digital Object Identifier 10.1109/PDIS.1994.331720
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Edit an existing query or compose a new query in the Search Query Display.

Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Search Query Display

Recent Search Queries

#1	(((guid<in>metadata) <and> (target<in>metadata))<and> (source<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#2	(((global<in>metadata) <and> (target<in>metadata))<and> (source<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#3	(((databases<in>metadata) <and> (target<in>metadata)) <and> (source<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#4	(((hotsync<in>metadata) <and> (target<in>metadata))<and> (source<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#5	(((hotsync<in>metadata) <and> (database<in>metadata)) <and> (source<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#6	(((hotsync<in>metadata) <and> (database<in>metadata)) <and> (records<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#7	(((synchronization<in>metadata) <and> (database<in>metadata))<and> (records<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#8	(((identifiers<in>metadata) <and> (database<in>metadata)) <and> (records<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#9	(((global<in>metadata) <and> (unique<in>metadata))<and> (identifier<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#10	(((datasets<in>metadata) <and> (unique<in>metadata)) <and> (identifier<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#11	(((dataset<in>metadata) <and> (unique<in>metadata)) <and> (identifier<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)
#12	(((records<in>metadata) <and> (unique<in>metadata)) <and> (identifier<in>metadata)) <and> (pyr >= 1950 <and>

pyr <= 1996)

#13 (((data<in>metadata) <and> (unique<in>metadata))<and> (identifier<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 1996)

[redacted]

RESULT LIST
1 result found in the Worldwide database for:
unique and identifiers in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

1 **Methods for assigning unique identifiers in a distributed fault tolerant application**

Inventor: GARG ASHWANI (IN); PATEL CHIRAYU (US); **Applicant:** INTEL CORP (US) (+1)

EC: H04L29/06; H04L29/12A **IPC:** ***H04L29/06; H04L29/12***; **H04L29/06** (+2)

Publication info: **US2003078947** - 2003-04-24

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
3 results found in the Worldwide database for:
target and source in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

1 **Data synchronization interface between a source and a target**
Inventor: HOREL JERRY; TRUITT ROBERT; (+1) **Applicant:** QUALCOMM INC
EC: G06Q30/00B **IPC:** ***G06F12/00; G06F13/00; G06Q30/00*** (+8)
Publication info: **NZ531148** - 2005-11-25

2 **Staging buffer for translating clock domains when source clock frequency exceeds target clock frequency**
Inventor: HUGHES WILLIAM A (US); HEWITT LARRY D (US) **Applicant:** ADVANCED MICRO DEVICES INC (US)
EC: G06F5/10; H04L7/02 **IPC:** ***G06F5/10; H04L7/02***; *H04L7/00* (+4)
Publication info: **US6370600** - 2002-04-09

3 **Processes and apparatuses for generating file correspondency through replication and synchronization between target and source computers**
Inventor: FALLS PATRICK T (GB); WIGHTMAN ANDY T (GB) **Applicant:** NOVELL INC (US)
EC: G06F9/44G4C **IPC:** ***G06F9/44***; **G06F9/44**; (IPC1-7): G06F17/30
Publication info: **US5950198** - 1999-09-07

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
4 results found in the Worldwide database for:
databases and records in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

1 **System and method for synchronizing data records between multiple databases**
Inventor: HIND HUGH (CA); DUNK CRAIG (CA) **Applicant:** RES IN MOTION LTD (US)
EC: G06F11/14A4B5M; G06F17/30B **IPC:** ***G06F11/14; G06F17/30***; **G06F11/14** (+2)
Publication info: **US2005071358** - 2005-03-31

2 **System and method for synchronizing data records between multiple databases**
Inventor: HIND HUGH (CA); DUNK CRAIG A (CA) **Applicant:**
EC: G06F11/14A4B5M; G06F17/30B **IPC:** ***G06F11/14; G06F17/30***; **G06F11/14** (+2)
Publication info: **US2004024795** - 2004-02-05

3 **SYSTEM AND METHOD FOR SYNCHRONIZING DATA RECORDS BETWEEN MULTIPLE DATABASES**
Inventor: DUNK CRAIG A (CA); HIND HUGH R (CA) **Applicant:** RES IN MOTION LTD (CA)
EC: **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **CA2505885** - 2001-10-10

4 **Synchronization of recurring records in incompatible databases**
Inventor: BOOTHBY DAVID J (US) **Applicant:** PUMA TECHNOLOGY INC (US)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US5943676** - 1999-08-24

Data supplied from the ***esp@cenet*** database - Worldwide